Release notes for ENDF/B Development n-002_He_004 evaluation

April 26, 2017

- `fudge-4.0` Warnings:
  1. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
     Section 1 (n + He4): / Form 'eval': (Error # 0): Condition num.

     ```
     WARNING: Ratio of smallest/largest eigenvalue (8.560573e-17) is too small
     ```

- `njoy2012` Warnings:
  1. This nuclide has no URR and NJOY is upset about it
     unresr...calculation of unresolved resonance cross sections (0): No URR

     ```
      ---message from unresr---mat  228 has no resonance parameters
                               copy as is to nout
     ```

  2. This nuclide has no URR and NJOY is upset about it
     purr...probabalistic unresolved calculation (0): No URR

     ```
      ---message from purr---mat  228 has no resonance parameters
                               copy as is to nout
     ```

  3. Coefficient mismatch of some sort
     covr...process covariance data (1): COVR/matshd (2)

     ```
      ---message from matshd---processing of mat/mt  228/  1 vs. mat1/mt1  228/  1
                               largest coefficient=  1.00000E+00 at index  12 289
     ```

  4. The number of coefficients was too large in a covariance
     covr...process covariance data (2): Cov:Too many coeff.

     ```
      ---message from matshd---**** coefficients > 1
                               reset and continue.
     ```

  5. Coefficient mismatch of some sort
     covr...process covariance data (3): COVR/matshd (2)

     ```
      ---message from matshd---processing of mat/mt  228/  1 vs. mat1/mt1  228/  2
                               largest coefficient=  1.00000E+00 at index  12 289
     ```

  6. The number of coefficients was too large in a covariance
     covr...process covariance data (4): Cov:Too many coeff.

     ```
      ---message from matshd---**** coefficients > 1
                               reset and continue.
     ```

  7. Coefficient mismatch of some sort
     covr...process covariance data (5): COVR/matshd (2)

     ```
      ---message from matshd---processing of mat/mt  228/  2 vs. mat1/mt1  228/  2
                               largest coefficient=  1.00000E+00 at index  12 289
     ```

  8. The number of coefficients was too large in a covariance
     covr...process covariance data (6): Cov:Too many coeff.

     ```
      ---message from matshd---**** coefficients > 1
                               reset and continue.
     ```